

1 ABSTRACT OF THE DISCLOSURE

A mapping catheter comprises a catheter body and a mapping assembly. The catheter body has an outer wall, proximal and distal ends, and at least one lumen extending therethrough. The mapping assembly comprises a generally straight proximal region attached to the catheter body, a generally circular main region distal the proximal region having an outer circumference, and a generally straight distal region distal the main region. The mapping assembly also comprises a support member having shape-memory, a non-conductive covering over the support member, and a plurality of electrodes on the non-conductive covering along the generally circular main region.

10

15

20

25

30